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#### 1. The Oil Reserve of the Soviet Union.

There are no other new data on the oil reserve of the USSR besides those published in the 1937 edition of the Bolghaya Sovetshaya Entsitlepediya. However, it can be presumed from subsequent statements made by Seviet Government workers and from the 1st and and Five Tear Plans after the war and other newspaper and news reports from the Soviet, that the oil reserve is far greater than originally believed back in 1937. Repeatedly, due to the discovery of rich oil fields in the Ural and Volga districts, which value was hidden for the past 20 years, it is expected that the data up to the present time should be revised.

Oil Reserves of the USSR in 1937
(in Million Tone)

	Prepared & Prespected	<u> Lama</u>	<u>Tetal</u>	Supposed	Geological	Grand Total
Feerbaidsham SSR	123.1	447.6	570.7	1,340.3	641.3	2,552.3
sorgian SSR	2.6	34.6	37.2	107.5	31.5	176.2
Grosny Raice	15.5	52,0	67.5	187,3		174.6
Pogestan Raion	20.0	47.5	67.5	78.5		146.0
Kaban - Black See Region	9.2	12.6	21.8	63.4	72.7	156.9
Esina Region	30.6	1.3	31.9	618.5	540.0	1,190.4
Region & Kalmyk SSR	15.9	18.7	34.6	434.6	721.3	1,190.5
borthern (Uhicta) Region	0.7	10,0	10.7	. 11.4	editrio	22.1
Sakhal in	10.3	10.1	20.4	98.5	220,9	339.8
Contral Asia	<b>).0</b>	17.3	20.3	134.4	272.4	427.1
Total in the VSSR	230.7	651.7	862,6	2,994.4	2,499.1	6,376.1

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Although the basis for the determination of the estimated receive as shown in the chart is not listed in the BSE, it is believed that, in general, it signifies the following conditions. In other words:

Prepared and Prospected: These in production. Includes these which can be developed immediately.

Lacras: The existence of all confirmed through selected test berings.

<u>Approach</u>: Through other methods besides bering. For example, deposits estimated through means of galaxalogy and through electro-magnetic methods.

<u>Joslogical</u>: The deposite which had been estimated through a geological survey of the region.

It is believed that these four estagories are given in the order of greatest probability.

In an amouncement nade at the beginning of last year, the Minister for the Petroleum Industry in the Seviet Union brought out the fact that the importance of the Bastern region had increased tremsdously in relation to the production of oil. A Migh percentage of oil production was achieved, especially in the Republics of Tarter and Backkin. It is said that, as a result of a large scale geological survey and test diggings made in the Ural-Volga oil fields, large new oil deposits were discovered in the Republics of Backkin and Tarter and in the Enthyschev and Heletov regions, According to the Seviet amouncement, the oil region lying between the Volga River and the Bral Houstein range has an area of approximately 40,000 equare miles and is generally divided into six oil fields which are reported to have abundant oil bods. In a literature accompanying its fourth Five Year Flan, the Seviet Government refers to this oil production area as "the Second Baku". However, since the Seviet Government has stubbornly avoided giving any figures on its actual production in the necessary the amount is unknown.

The Seviet Government very solden reveals its exact production figures and in most cases limits itself to percentage index figures. It is very rare that it reveals concrete data regarding the period in question. The production figure for 1953 was not even revealed in a speech given by MALEMERY at the Pifth Section of the Sepreme Seviet of the USER held on 8 ingest 1953.

The following chart cheering the exact cil production figures in the Soviet Union was fromt in the Belgham Revetakaya Interklapadia, Moscow, I. M., Vol. III, pp. 880.0602; Provrkin, Adherki Pa Interil Savetakai Germal Telmiki, Moscow, 1990; 668, Moscow, I ed., Vol. III, p. 106; Invetile, October 6-6, 1952; Pravia, Samsery M., 1085.

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# Cil Production in the Soriet Maion

1910	9.85	
	9.23	
1913		
1920	3.78	,
1927-1928	11.75	•
1930	17.24	
1932	22,27	
1934	15. بد	
1935	25.1.	
1936	27.34	
1940	31.00	
1945	19.23	
1945	27.0%	
19.7	25.56	•
1948	~9.0h	
1949	33.07	
1950	37.30	
1951	41.80	
1954	46.93	
1953	52.00	
1954	58.20	
1955	70.00	(Pien)

coverer, the statistics as given by the United Mations (Monthly bulleting of Conference, November, 1955), presents figures much lower than those found in the Conference data.

Unit	ed Nations	taristics.
(In	Million Yet.	ia Tor.s)
1938		25.20
1950		31.60
1951		35.20
1952		39.40
1953		44.00
1954		49.40

## 2. The Eastern Region of the Seviet Union in Belation to Oil Production.

As can be seen from the following chart, cil production in the Mastern region of the Soviet Union has rapidly increased in importance during the last 10 years.

## Chart (1)

# 011 Production in the Eastern Series

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1262	Actual Production (in Million Tons)	Ratio For Total
27 m2	13.72	12 per senti
1.750 (P14m)	13,43	36 per sent
1954	34.90	60 per sent

The 1940 figures were obtained from a report given by VOZERSENSEL, Chalmen of the National Planning Committee, at a meeting of the Supresse Soriet held on 15 Mar 1946. The 1954 figures were extracted from an edicated in Prayla dated 25 Feb 1954.

The heart of the eil industry was transferred to the Eastern region of the rich oil reserves there and for strategic purposes. Since you is only 190 kilometers from the Iranian border, the Grosny region will still be the first the Iranian border, and Dregobyth and Stanisky region only 170 and 170 kilometers, respectively, from the Western border of the owint Gaion, it cannot be said that all of them are in a strategically secure position. In contrast, not only do the Ural-Volga oil bearing regions produce more than 50 per cent of the total Seviet oil output, but they are located 1,700 and 2,500 kilometers inland from the Western and Southern berders and, consequently, are in a defensively secure position.

The existence of a large oil field in the Ural-Volga regions, and based in the fact that Seviet heavy industries have moved and are continuing to move to the Eastern region, it is believed that, recommissally, the Bastern region will have much to offer in the future. For this reason, it is consible to conclude that the industrial sens in the Eastern region remains independent of the Southern and Meetern regions as far as demand for oil is concerned.

# 3. In it Pessible to Produce 70 Hillian Tons Under the Fifth Five Year Plan?

In comparing the 1953 and 1954 production figures with that of previous years, there was an increase of 5,100,000 tons and 6,200,000 tons, respectively, in actual quantity which meant that, percentage-wise, there was an increase of 12 per cent for both years. Consequently, this meant that in order to achieve the ultimate production goal of 70 million tons envisaged by the Fifth Plan, the production ratio for 1955 must be doubled; in other words, as artual quantity increase of 8,800,800 tons must be achieved. However,

there are considerable doubts as to whether or not this suiden increase in production is possible. Not only must now oil beds be effectively terrisped, but in is absolutely necessary that preliminary stope such as prospecting, and test begings be carried out as planned.

in the 17 Nul 1955 issue of <u>Pravia</u>, BULGANIN stated that all heavy introduction, with the exception of iron and steel, had succeeded in attaining 70 per cent of the production goal.

On the other hand, efficial government amnouncements and Pravia editorials have mentioned from time to time of delays and difficulties encountered in sarrying out the plans for development of oil beds. For example, recognizing the fact that prospecting thus far had not achieved the level both in result and speed, demanded by the petroleum industry, the Petroleum Industry Minister stated: "One of the whief faults of the geological survey and prospecting operations is that the test boring locations are too widely scattered. Furthermore, in many instances, prospecting is being emotysted in areas which are not fully propared, thus prolonging the operation and delaying, by several years, the industrial development of new oil fields, included among these are the major oil producing areas such as isorbsiches, keachistan, Control Asia, and Turkmenia. Proparations for deep prospecting borings are considerably delayed in the Siberian region."

Under the Sixth Pive Year Plan, a goal far exceeding the goal set union the Fifth Five Year Plan has been established, but due to the alex progress of technology and inadequate preparations, there will be many difficulties encountered before the goal is achieved.

# 4. Eastern Region of the Seviet Union in Belation to Coal Production.

As in the case of eil preduction, the Soviet Government, since World War II, has been progressively attempting to move the heart of its each production some east of the Ural. In moving the senter of the ceal production some, there exists many difficulties such as the development of new mines and other problems involved collecting the ceal. However, the Soviet Government has constantly made this the basic policy of her ceal industry. It is believed that the following three major principles govern this policy: 1) Strategical reasons, 2) Influenced by the migration of other industries to the Eastern region, and 3) Conter of ceal resources is in the Eastern region.

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## The Amount of Soviet Coal Reserves

The intest official estimate of the world's coal reserve was obtained in the amnouncement made at the International Geologie Congress held in Massow in 1937. According to this, the total reserve of the Soviet twice was estimated at 1,6% billion tons. Assuming that additional coal discrete were made, the current total reserve exceeds two trillion tons. As can be clearly seen in the following chart, included within this 1,6% billion tons is the 1,460 billion tons found in the Bastern region, and consequently, it clearly indicates the importance of the region as far as coal is concerned.

# Coal Deposits in the USER (Billion Tens)

## Asiatie Regions

Kusmotek Basin	451
Irintsk Basin	<b>s</b> ı
Karaganda Basin	59
Chulyin-Yenisei Basin	43
Xanak Bacin	. 42
Historiack Basim	· a
Bureya Bacin	26
Other Asiatic Regions of the USSE	764
TOTAL	1,441
Berepean Reclang	
Denote Basia	, 90
Pochora Basin	60
Other Baropean Regions of the USER	23
TOPAL	173

#### The Seviet Union Eastern Region and Goal Production

In measuring the total Soviet soal production from 1927 up to resemble times, the following figures are observed:

#### Soviet Coal Production (In One Million Tone)

1927	32,99
1928	35.30
1932	64.33
1933	75.99
1937	128,00
1940	166.00
1945	148.00
1947	182.00
1949	235.30
1950	250.00
1952	300.00
1953	320.00
1954	346.00
1955	370.00

In comparing the ratio of production of the Soviet Union's European region and the Eastern region, it can be seen that, on the whole, the importance of the Soviet Union's Eastern region has increased tremendously since the beginning of the 20th Commun. In reducing the coal deposits in the USSE to percentages and their locations in chart form, we observe the following.

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#### Coal Deposits and Their Location in the USSE (in Persontage of Total Yearly Output)

Basing & Regions	7373	1924	1932	1937	1940	1270
Donets	26.9	77.0	69.7	60.6	2.5	35.2
Moseow Area	1.0	3.2	4.0	5.9	6.0	9.6
Vrals	4,2	5.6	4.9	6.3	-	-

	•	
•	6	•

TOTAL	100.0	100.0	100.0	100.0	100.0	100.0
Other Regions	0.6	0.3	0.7	1,8	42.5*	55.24
Control Asiatio	0.5	0.6	1.1	0.7		
Keraganda			1.1	3.1		•
For Eastern	1.2	3.0	3.5	3.7	-	all-arres
Eastern Siberian	1.9	2.9	3.8	4.0	-	~~
- <b>基</b> 公公历表示的数	2.7	7.4	11.2	13.9	-	-

\* 55.2, 42.5 indicates the sum total for the Urals, Kusmetak, Rastern Siberia, Far East, Karagamia, Contral Asiatic Regions, and other districts. Data on the production in each district sennet be obtained at this time.

From this shart, it can be clearly seen that: 1) The coal mines in the European sector of the Seviet Union, especially these of the Donets River basin, are rapidly declining in importance. 2) Their percentage in relation to the total Seviet Union production for the past 20 years has decreased in half. The antithesis in the marked decline of the European Seviet in its overall importance is due to the increase in the relative importance of the Far Eastern Seviet region (Seviet Eastern region). The Seviet Eastern region has shown transmission increase from 20 per cent in 1928 to 55,2 per cent in 1950, to 60 per cent in 1954. In converting this into actual figures, we see that the 1954 production in the Ural Eastern region was 208 million tens and the Seviet European region was 138 million tens.

As mentioned previously, the tendency for the senter of the coal preduction some to gradually move to the Far Rast, increased its tempo tremendously during World War II. The following is the general result in briefly describing the details during this period. In other words, among the European Soviet coal mines which, during World War II, had produced more than 100 million tons annually, 1,135 were destroyed. With the goal of regaining the production level based on these figures, positive operations were carried out to develop and equip the coal mines of the Eastern regions in 1942-1944, and it was known that the production in the Eastern region had already reached 73 million tons at that time. Later, as a result of successive emphasis on the development of coal mines in the Eastern region, at the closing period of the great war, the percentage of production in mem-European closing period of the great war, the percentage of production in mem-European

the date in the everall Seviet coal production was prevented this, so entire the monthly, although the reconstruction of the Doners River residence of the construction of the Doners River residence in 1990, which interested the Mailton tons for 1980; the relative importance of the me light decreased from \$1.5 per cent to \$5.2 per cent, as seen from the constructions should

In summarising what we have stated up to now, we find that? The section of qual production after the war is being advanced with constravable special bosever, 2) A greater part of this production has resulted from the development of new mines in the Eastern region of the Soviet Union, whereas the revival of former coal mines in the European site of the Scriet Inion has been relegated to a position of secondary importance; 3: Out of the average of approximately 20 million tons to 24 million tons of increased production annually, a minimum 15 million to 17 million tons are being production as a result of the new developments.

# 5. The Helstionship Between Current Production Rate and Dessend Throughout the Soviet Union.

The figure which was established by STALLW in 1945, as the long range gold for industrial production is believed to be of aid in considering whether the poriet Union's coal production has now reached an adeptate level. Halle, in order to avoid the fuel crisis in the Soviet Union and in order to adherent a sufficient supply of raw feel for the chemical industry, maintained that the following goals would have to be reached: 260 million tone for that the following goals would have to be reached: 260 million tone for 1950; and 500 million tone for 1950; and 500 million tone for 1950. Since 18.2 per cent increase was seen faring the first oir noath period of 1954 over the 1953 figure, it can be assumed that in 1955, the first year of the Pirth Pive Year Plan, the goal which STALLE has set the bad been reached. Purthermore, on the basis of the production rate of the Pirth Pive Year Plan (1951 to 1955), it is believed that it would not be tone additionally to reach the 500 million ton goal in the Sixth Five Year Flan.

increasing military demands, the 500 million ton goal way not necessarily first it is soviet needs, as pointed out in the editorials in Prayda and Igyretia. Finance has stated repeatedly that the development of heavy industries and the development of Soviet economy will be largely affected by the progress of the ecol industry, and pointed out the fact that production is not being married out to the extent of fully satisfying the current Soviet requirements. Delayed? Stateds "The work on the coal mines is far behind schedule and were are numerous instances where they (mines) are still incomplete. As a result, further increase in scal production is difficult. The Ministry of Coal Industry has achieved very little success in reducing the hours required in construction. In fact, the situation is such that many of the coal mines which should have been in operation last year have only started to operate this year. Funds for capital construction in the coal mines are being

improprietely distributed and plans for developing new mining regions downly the past three years have been constantly in a chaetic condition."

In idition, there are many essays which point out the excessive delays in the various types of capital constructions (including broses for laborers) assessmy in mine operations, the lack of necessary technicians, the discretional black of management, and the low level of labor productivity. (The command Master Uglya No. 6, 1954; Master Uglya No. 7, 1954; Praydu. Southwhere is 1955; an article by G. EMCHENKO; and others are examples of this. In analyzing the tone of these various essays, the omeliasion can be resched that, in the coming Soviet coal production, although it is possible to achieve the goal as established in the Sixth Plan, there exists various problems, and that in order to fully satisfy the present needs of the mations, considerable difficulties will be encountered.

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